Maths Mock Test Paper 25

Name: _____ Date: _____

Time allowed: **50 minutes** **50 questions**, 1 mark each

Answer **every** question. Each question has five options, **A** to **E**, and exactly one is correct. Work out the answer and mark the letter you have chosen. Marks are not taken away for a wrong answer, so it is worth having a go at every question. **Calculators and rulers are not allowed.**

Q1. A printer prints 24 pages in 3 minutes. How many pages does it print in 7 minutes?

A. 28 *B.* 48 *C.* 56 *D.* 64 *E.* 72

Q2. Three quarters of a class of 32 pupils walk to school. How many pupils walk?

A. 24 *B.* 8 *C.* 16 *D.* 26 *E.* 28

Q3. What is −4 + 7?

A. −11 *B.* −3 *C.* 3 *D.* 7 *E.* 11

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Q4. The table shows how 20 pupils travel to school. Which way of travelling is used by exactly a quarter of the pupils?

Way of travelling	Number of pupils
Walk	8
Bus	5
Car	4
Cycle	3

A. Walk

B. Bus

C. Car

D. Cycle

E. None of them

Q5. Which of these numbers becomes 4.5 when it is multiplied by 10?

A. 0.045 *B.* 4.05 *C.* 45 *D.* 0.45 *E.* 450

Q6. Look at the calendar for this month. What day of the week is the 14th?

Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

A. Monday *B.* Tuesday *C.* Wednesday *D.* Thursday *E.* Friday

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Q7. A cyclist rides 45 km in 90 minutes. What is the average speed in kilometres per hour?

A. 15 km/h *B.* 22.5 km/h *C.* 30 km/h *D.* 45 km/h *E.* 60 km/h

Q8. A shop sells pens only in packs of 6. Mia needs 40 pens. How many packs must she buy?

A. 6 *B.* 8 *C.* 9 *D.* 7 *E.* 10

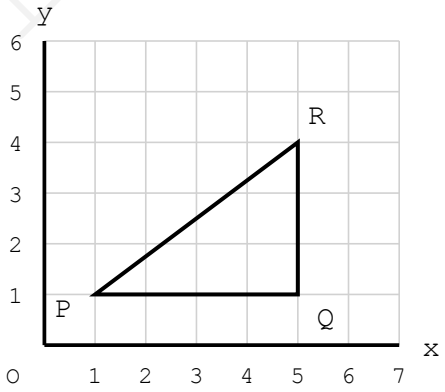
Q9. The population of a village is 3,267. To the nearest 100, what is the population?

A. 3,000 *B.* 3,200 *C.* 3,267 *D.* 3,300 *E.* 3,400

Q10. If x = 3, what is the value of 4x?

A. 7 *B.* 12 *C.* 34 *D.* 43 *E.* 81

Q11. What is the area of triangle PQR, measured in squares of the grid?



A. 5 *B.* 8 *C.* 10 *D.* 12 *E.* 6

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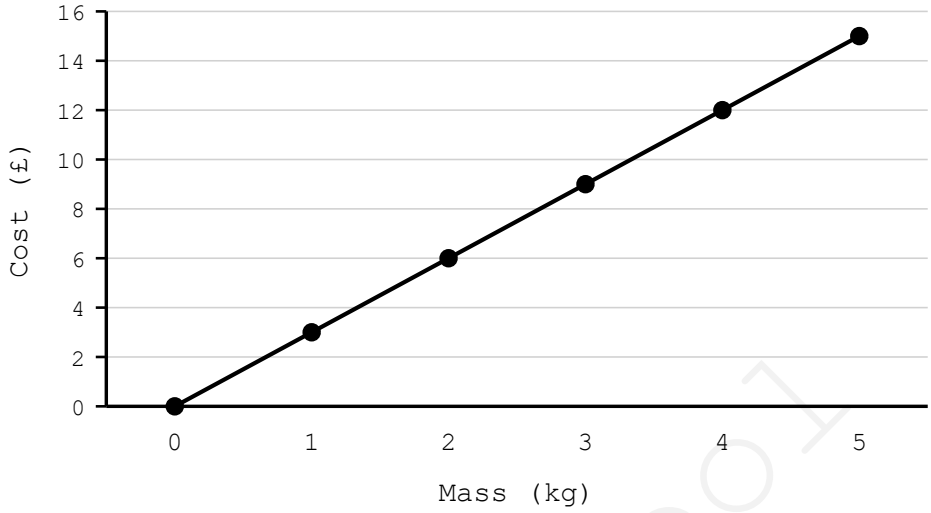
Q12. The graph shows the cost of apples. How much would 3.5 kg cost?



A. £9.00 *B.* £10.50 *C.* £12.00 *D.* £11.00 *E.* £10.00

Q13. The table shows how many matchsticks are used to build each pattern. How many matchsticks are needed for pattern 8?

Pattern number	**1**	**2**	**3**	**4**
Matchsticks	4	7	10	13

A. 22 *B.* 25 *C.* 28 *D.* 31 *E.* 34

Q14. In Alton the coldest temperature of the year was −12°C and the warmest was 21°C. In Brayford the coldest was −5°C, and the gap between the coldest and the warmest was the same as in Alton. What was the warmest temperature in Brayford?

A. 16°C *B.* 21°C *C.* 26°C *D.* 28°C *E.* 33°C

Q15. What is 0.6 × 100?

A. 0.06 *B.* 6 *C.* 60 *D.* 66 *E.* 600

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Q16. The number 8,0?4 rounds to 8,100 when it is rounded to the nearest hundred. Which digit could go in the gap?

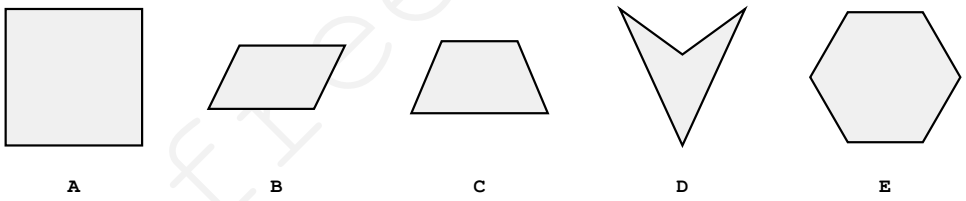
A. 2 *B.* 4 *C.* 3 *D.* 5 *E.* 0

Q17. The two-way table shows what 60 pupils had for lunch, but two of the numbers are missing. How many girls had a school dinner?

	Packed lunch	**School dinner**	**Total**
Boys	14	19	33
Girls	12	?	27
Total	26	?	60

A. 12 *B.* 19 *C.* 27 *D.* 34 *E.* 15

Q18. Four of these shapes have at least one pair of parallel sides. Which shape does not?



A. A *B.* B *C.* C *D.* D *E.* E

Q19. Ben says that to find 15% of £60 he can find 10% of it and then add half of that on. Is he right?

A. Yes, and the answer is £9

B. Yes, but the answer is £12

C. No, he should double the 10% instead

D. No, 15% of £60 is £15

E. No, he should add a quarter of the 10% on

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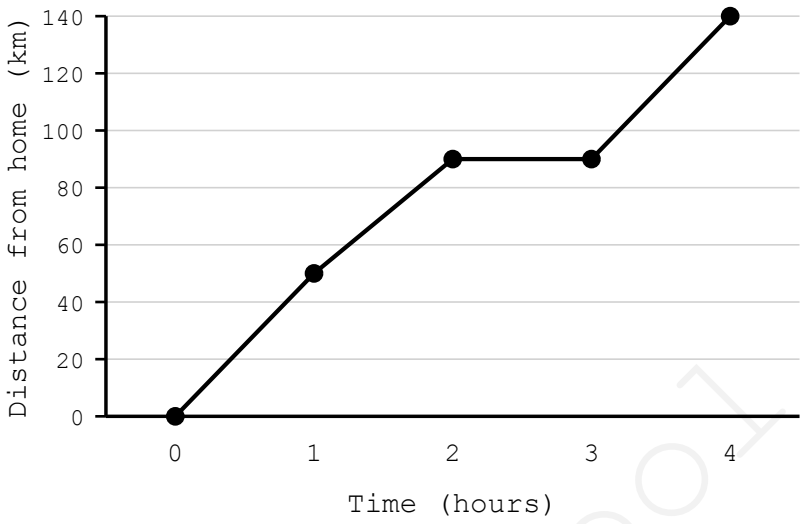
Q20. The graph shows a car's distance from home. What was happening between 2 and 3 hours?



A. The car was going faster than before

B. The car was not moving

C. The car was driving home

D. The car was going slower but still moving

E. The car was reversing

Q21. The probability that a seed grows into a plant is 0.85. What is the probability that the seed does not grow?

A. 0.15 *B.* 0.25 *C.* 0.75 *D.* 0.85 *E.* 1.15

Q22. Ravi rounds a whole number to the nearest ten and gets 80. What is the largest number he could have started with?

A. 79 *B.* 80 *C.* 85 *D.* 84 *E.* 89

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Q23. The points (1, 1), (5, 1), (5, 3) and (1, 3) are joined in order. Which of these best describes the shape made?

A. A square

B. A rectangle that is wider than it is tall

C. A rectangle that is taller than it is wide

D. A parallelogram that is not a rectangle

E. A trapezium

Q24. What is 13 squared?

A. 26 *B.* 139 *C.* 169 *D.* 196 *E.* 209

Q25. A batter is made from milk and flour in the ratio 3 : 4. If 900 ml of milk is used, how much flour is needed?

A. 800 g *B.* 675 g *C.* 1 100 g *D.* 1 500 g *E.* 1 200 g

Q26. A number has a 6 in the thousands place and another 6 in the tenths place. Which of these could the number be?

A. 1,624.6 *B.* 6,214.6 *C.* 4,612.6 *D.* 6,142.06 *E.* 6,421.06

Q27. 60% of a number is 30. What is the number?

A. 18 *B.* 40 *C.* 50 *D.* 60 *E.* 90

Q28. How many minutes are there in 2¼ hours?

A. 115 *B.* 120 *C.* 125 *D.* 130 *E.* 135

Q29. A taxi charges £3 to start the journey and then £2 for each mile travelled. Nita pays £17. How many miles was her journey?

A. 5 *B.* 6 *C.* 8 *D.* 7 *E.* 10

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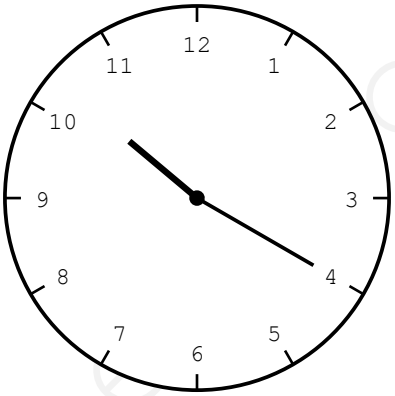
Q30. Which of these numbers is furthest from zero?

A. −13 *B.* −12 *C.* −9 *D.* 8 *E.* 11

Q31. A bottle holds 1.5 litres of squash. Ravi pours out 350 ml three times. How much squash is left in the bottle?

A. 150 ml *B.* 350 ml *C.* 550 ml *D.* 450 ml *E.* 1,050 ml

Q32. The clock shows the time a lesson started. The lesson lasts 45 minutes. At what time does it end?

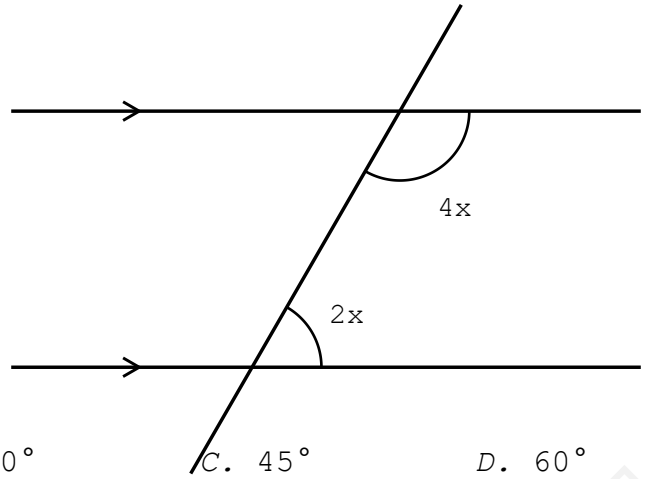


A. 10:55 *B.* 11:15 *C.* 11:05 *D.* 11:00 *E.* 10:45

Q33. A path 1 m wide runs all the way round the outside of a square lawn of side 6 m. What is the area of the path?

A. 24 m² *B.* 26 m² *C.* 32 m² *D.* 36 m² *E.* 28 m²

Q34. The two horizontal lines are parallel. Work out the value of x.



A. 30° *B.* 40° *C.* 45° *D.* 60° *E.* 90°

Q35. Which of these is the best way to check that 348 ÷ 12 = 29 is correct?

A. Work out 348 × 12

B. Work out 348 + 12

C. Work out 29 × 12

D. Work out 29 + 12

E. Work out 12 ÷ 29

Q36. A 750 ml drink is 20% juice and the rest is water. What is the ratio of juice to water in its simplest form?

A. 1 : 4 *B.* 1 : 5 *C.* 4 : 1 *D.* 1 : 3 *E.* 2 : 5

Q37. Dividing 480 by which of these numbers gives the largest answer?

A. 5 *B.* 4 *C.* 6 *D.* 8 *E.* 10

Q38. Three buses leave a station together at 09:00. They then run every 10, 12 and 15 minutes. At what time do all three next leave together?

A. 10:00 *B.* 09:30 *C.* 10:30 *D.* 09:45 *E.* 11:00

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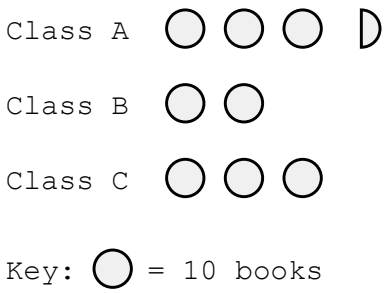
Q39. The pictogram shows how many books three of the four classes read. All four classes together read 130 books. How many books did class D read?



A. 35 *B.* 40 *C.* 50 *D.* 55 *E.* 45

Q40. What is 5,999,999 rounded to the nearest hundred thousand?

A. 5,900,000 *B.* 6,000,000 *C.* 5,999,000 *D.* 6,100,000 *E.* 5,000,000

Q41. What is the square root of 361?

A. 17 *B.* 19 *C.* 21 *D.* 23 *E.* 180.5

Q42. A snail moves at a steady 2 cm per second. How far does it travel in 5 minutes?

A. 2 m *B.* 4 m *C.* 6 m *D.* 10 m *E.* 60 m

Q43. A jacket costs £80. Its price is put up by 25% and then cut by 20%. What is the final price?

A. £76 *B.* £78 *C.* £82 *D.* £80 *E.* £84

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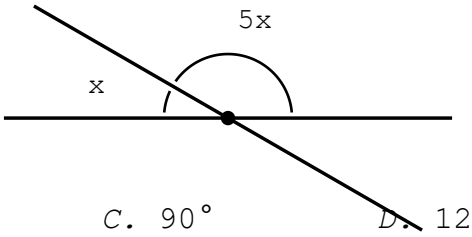
Q44. Two straight lines cross. Work out the size of the larger marked angle.



A. 30° *B.* 60° *C.* 90° *D.* 120° *E.* 150°

Q45. A set of numbers has a range of 20, and the smallest number in the set is −7. What is the largest number in the set?

A. −27 *B.* −13 *C.* 20 *D.* 27 *E.* 13

Q46. A piece of card is a 14 cm by 10 cm rectangle with a 6 cm by 5 cm rectangle cut from one corner. What is its area?

A. 100 cm² *B.* 104 cm² *C.* 110 cm² *D.* 125 cm² *E.* 140 cm²

Q47. The temperature is 8°C at midday and falls at a steady 3 degrees every hour. At what time does it reach −7°C?

A. 15:00 *B.* 16:00 *C.* 18:00 *D.* 19:00 *E.* 17:00

Q48. A recipe for 4 people uses 300 g of flour. How much flour is needed for 10 people?

A. 450 g *B.* 600 g *C.* 750 g *D.* 800 g *E.* 1,200 g

Q49. The point (3, 1) is rotated a quarter turn clockwise about the origin. Where does it land?

A. (1, 3) *B.* (−1, 3) *C.* (1, −3) *D.* (−3, −1) *E.* (3, −1)

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Q50. A rectangle measures 8 cm by 5 cm, with each side measured to the nearest centimetre. What is the largest area the rectangle could have?

A. 46.75 cm² *B.* 40 cm² *C.* 42.75 cm² *D.* 45 cm² *E.* 48 cm²

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